DISPLAY DEVICE FOR COLOR VIDEO SIGNAL

Patent number: JP2000023181

Publication date: 2000-01-21

Inventor: NAKA KAZUTAKA; OSAWA MICHITAKA; KONOUE AKIHIKO; OTAKA HIROSHI

Applicant: HITACHI LTD

Classification:

- international: H04N9/64; G06T1/00; G09G3/20

- european:

Application number: JP19980188507 19980703

Priority number(s): JP19980188507 19980703

Abstract of **JP2000023181**

PROBLEM TO BE SOLVED: To reduce a color noise generated by a dither or an error diffusion processing and staining of a black level neighborhood generated by white balance adjustment by replacing a combination of levels of input video signals R, G and B with a representative vector structured by the combination of the levels of predetermined R, G and B. SOLUTION: A detection circuit 2 calculates a luminance level from input signals VG, VR and VB, detects an area where this luminance level is below a specified value and outputs a decision signal QSW. A quantization circuit 1 has signals of lower-order 2 bits of input signals VG, VR and VB inputted respectively and converts into a combination of luminance levels in which a color noise is difficult to generate. Switch circuits 3a to 3c can reduce the color noise which is conspicuous by a black neighborhood luminance by selecting signals QG, QR and QB converted by the quantization circuit 1. Also, it is possible to express a correct gradation and hue.